CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2008 Certified Company

JAS-ANZ
ISO 9001:2008 CERTIFIED

Job No.: CQCE/BBMP/KRIDL/W.No.16/2018-19 Date: 13.08.2018

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Yeshwanthapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager,** KRIDL, Bangalore.
NAME OF THE WORK	:	Beautification and Construction of Compound Wall with Grill to Indira Canteen in Ward No.16, BBMP, Bangalore.
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	410 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00 %	-

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Job No.: CQCE/BBMP/KRIDL/W.No.16/2018-19 Date : 13.08.2018

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Yeshwanthapura Sub Division, BBMP, Bangalore.
Agency : **Technical Manager,** KRIDL, Bangalore.
Name of Work : Beautification and Construction of Compound Wall with Grill to Indira Canteen in Ward No.16, BBMP, Bangalore.
Date of Testing : 13.08.2018
Material : Sand

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	84	8.40	8.40	91.6	90-100
2.36	150	15.00	23.40	76.6	75-100
1.18	165	16.50	39.90	60.1	55-90
600 Micron	190	19.00	58.90	41.1	35-59
300 Micron	178	17.80	76.70	23.3	8-30
150 Micron	180	18.00	94.70	5.3	0-10

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Job No.: CQCE/BBMP/KRIDL/W.No.16/2018-19 Date : 13.08.2018

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Yeshwanthapura Sub Division, BBMP, Bangalore.
Agency : **Technical Manager,** KRIDL, Bangalore.
Name of Work : Beautification and Construction of Compound Wall with Grill to Indira Canteen in Ward No.16, BBMP, Bangalore.
Date of Testing : 13.08.2018
Material : 40mm aggregate

Total Wt. of Aggregates in gms 15000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	248	1.65	1.65	98.35	95-100
20	8635	57.57	59.22	40.78	30-70
10	3262	21.75	80.97	19.03	10-35
4.75	2485	16.57	97.53	2.47	0-5

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TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Yeshwanthapura Sub Division, BBMP, Bangalore.
Agency : **Technical Manager,** KRIDL, Bangalore.
Name of Work : Beautification and Construction of Compound Wall with Grill to Indira Canteen in Ward No.16, BBMP, Bangalore.
Date of Testing : 13.08.2018
Material : 20mm aggregate

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	89	1.8	1.8	98.2	95-100
10	2656	53.1	54.9	45.1	25-55
4.75	2150	43.0	97.9	2.1	0-10

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Job No.: CQCE/BBMP/KRIDL/W.No.16/2018-19 Date : 13.08.2018

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Assistant Executive Engineer,** Yeshwanthapura Sub Division, BBMP, Bangalore.
Agency : **Technical Manager,** KRIDL, Bangalore.
Name of Work : Beautification and Construction of Compound Wall with Grill to Indira Canteen in Ward No.16, BBMP, Bangalore.
Date of Testing : 13.08.2018
Material : Sand Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	29	2.90	2.90	97.1	95-100
2.36	16	1.60	4.50	95.5	95-100
1.18	35	3.50	8.00	92.0	90-100
600 Micron	78	7.80	15.80	84.2	80-100
300 Micron	236	23.60	39.40	60.6	20-65
150 Micron	510	51.00	90.40	9.6	0-15

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Date : 13.08.2018

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Yeshwanthapura Sub Division, BBMP, Bangalore.
Agency : **Technical Manager,** KRIDL, Bangalore.
Name of Work : Beautification and Construction of Compound Wall with Grill to Indira Canteen in Ward No.16, BBMP, Bangalore.

Date of Testing : 13.08.2018

Material : Sand

Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	13	1.30	1.30	98.7	90-100
1.18	38	3.80	5.10	94.9	70-100
600 Micron	82	8.20	13.30	86.7	40-100
300 Micron	266	26.60	39.90	60.1	5-70
150 Micron	485	48.50	88.40	11.6	0-15

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Job No.: CQCE/BBMP/KRIDL/W.No.16/2018-19

Date : 14.08.2018

TEST REPORT ON SOLID CONCRETE BLOCKS

Client : **Assistant Executive Engineer,** Yeshwanthapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of the Work : Beautification and Construction of Compound Wall with Grill to Indira Canteen in Ward No.16, BBMP, Bangalore.

Date of Testing : 14.08.2018

Size of Blocks : 400mm x 150mm x 200mm

Cross Sectional Area : 60000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	23.5	308.5	5.14	Minimum required Compressive Strength of Individual Units 5.00N/mm^2
2	Block 2	25.8	309.4	5.16	
3	Block 3	24.9	307.9	5.13	
4	Block 4	26.5	310.2	5.17	

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Job No.: CQCE/BBMP/KRIDL/W.No.16/2018-19

Date: 23.08.2018

TEST REPORT ON CEMENT MORTAR CUBES

Client : **Assistant Executive Engineer,** Yeshwanthapura Sub Division, BBMP,
Contractor : **Technical Manager,** KRIDL, Bangalore.
Name of the work : Beautification and Construction of Compound Wall with Grill to Indira Canteen in Ward No.16, BBMP, Bangalore.

Sample ID : Cement Mortar
Size of cubes : 50mmx50mmx50mm
Cross Sectional Area : 5000 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.08.2018	23.08.2018	0.782	12.8	5.12
2	16.08.2018	23.08.2018	0.795	13.8	5.52
3	16.08.2018	23.08.2018	0.764	13.4	5.36

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Job No.: CQCE/BBMP/KRIDL/W.No.16/2018-19

Date: 23.08.2018

TEST REPORT ON CEMENT MORTAR CUBES

Client : **Assistant Executive Engineer,** Yeshwanthapura Sub Division, BBMP,
Contractor : **Technical Manager,** KRIDL, Bangalore.
Name of the work : Beautification and Construction of Compound Wall with Grill to Indira Canteen in Ward No.16, BBMP, Bangalore.
Sample ID : Cement Mortar (Plastering)
Size of cubes : 50mmx50mmx50mm
Cross Sectional Area : 5000 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.08.2018	23.08.2018	0.798	13.5	5.40
2	16.08.2018	23.08.2018	0.845	12.9	5.16
3	16.08.2018	23.08.2018	0.810	13.1	5.24

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Job No.: CQCE/BBMP/KRIDL/W.No.16/2018-19

29.08.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yeshwanthapura Sub Division, BBMP,
Agency : **Technical Manager,** KRIDL, Bangalore.
Name of the work : Beautification and Construction of Compound Wall with Grill to Indira Canteen in Ward No.16, BBMP, Bangalore.

Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{15}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.08.2018	29.08.2018	8.120	266.2	11.83
2	22.08.2018	29.08.2018	8.139	279.2	12.41
3	22.08.2018	29.08.2018	8.140	285.1	12.67

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Job No.: CQCE/BBMP/KRIDL/W.No.16/2018-19

29.08.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Yeshwanthapura Sub Division, BBMP,
Agency	**: Technical Manager,** KRIDL, Bangalore.
Name of the work	: Beautification and Construction of Compound Wall with Grill to Indira Canteen in Ward No.16, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.08.2018	29.08.2018	8.136	268.9	11.95
2	22.08.2018	29.08.2018	8.152	280.6	12.47
3	22.08.2018	29.08.2018	8.129	295.3	13.12

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